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Sheet 1

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Application Number	10/632,779			
Filing Date	08/01/2003			
First Named Inventor	Daryoosh Vakhshoori			
Art Unit	2883			
Examiner Name	Lepisto, Ryan A.			
Attorney Docket Number	AHIIDA 1			

	-		U. S. PATENT	DOCUMENTS	
Examiner Initials*	Cite No.1	Document Number Number-Kind Code ^{2 (f known)}	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
w.	1_	^{US-} 6,038,239	03-14-2000	Gabbert	
~~	2	^{US-} 6,697,558	02-24-2004	Hansen et al.	
·~	3	^{US-} 6,693,740	02-17-2004	Gray et al.	
a	4	^{US-} 6,542,287	04-01-2003	Ye et al.	
レ	5	^{US-} 6,292,288	09-18-2001	Akaska et al.	
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		FOREI	GN PATENT DOCU	MENTS		
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				Application Number	10/632,779	
			CLOSURE	Filing Date	08/01/2003	_
STA	STATEMENT BY APPLICANT			First Named Inventor	Daryoosh Vakhshoori	_
(Use as many sheets as necessary)				Art Unit	2883	_
		Examiner Name	Lepisto, Ryan A.	_		
Sheet	2	of	3	Attorney Docket Number	AHURA-1	7

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
W	6	AGRAWAL et al., Nonlinear Fiber Optics, 1989, Ch.8, Academic Press.	
~	7	KOCH et al., Broadband Raman Gain Characterisation in Various Optical Fibers, Electronics Letters, 11/22/2001, 1437-1439, 24.	
or	8	TSUKIJI et al., Recent Progress of High Power 14XXnm Pump Lasers, Proceedings of SPIE, 2001, 349-360, 4532, Denver, CO.	
~	9	MATSUSHITA et al., Design of Temperature Insensitive Depolarizer for Raman Pump Laser Diode, OSA Technical Digest, OFC2002, WB3.	
~	10	FLUDGER et al., Pump to Signal RIN Transfer in Raman Fiber Amplifiers, Journal of Lightwave Technology, 08/2001, 1140-1148, 19-8.	
~	11	KIDORF et al., Pump Interactions in a 100-nm Bandwidth Raman Amplifier, IEEE Photonics Technology Letters, May 1999, 530-32, 11-5.	
n	12	PAQUETTE et al., Blueshifting of InGaAsP-InP Laser Diodes Using a Low-Energy Ion-Implantation Technique: Comparison Between Strained and Lattice-Matched Quantum-Well Structures, IEEE Journal of Selected Topics in Quantum Electronics, July/August 1998, 741-745, 4-4.	
~	13	YU et al., Semiconductor Lasers Using Diffused Quantum-Well Structures, IEEE Journal of Selected Topics in Quantum Electronics, July/August 1998, 723-735, 4-4.	
	14	GARBUZOV et al., 14xx nm DFB InGaAsP/InP pump lasers with 500 mw CW output power for WDM combining, Optical Fiber Communications Conference, 2002, Anaheim, CA.	
~	15	CHO, 90 mW CW Superluminescent Output Power from Single-Angled Facet-Ridge Waveguide at 1.5 um, Trends in Optics and Photonics Series, 2001, 31.	

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Attorney Docket Number

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		NON PATENT LITERATURE DOCUMENTS		
Examiner Initials*	Cite No. ¹	The street of the detries the control of the contro		
	16	OKAMOTO, Fundamentals of Optical Waveguides, 2000, Academic Press, San Diego.		
\sim	17	HOLONYAK, Impurity-Induced Layer Disordering of Quantum-Well Heterostructures: Discovery and Prospects, IEEE Journal of Selected Topics in Quantum Electronics, July/August 1998, 584-594, 4-4.		
\sim	18	KUDO, et al., 1.55-um Wavelength-Selectable Microarray DBF-LD's with Monolithically Integrated MMI Combiner, SOA, and EA-Modulator, IEEE Photonics Technology Letters, March 2000, 242-244, 12-3.		
N	19	HAMAMOTO et al., High Power with Low Electric Power Consumption 1.45 um Active Multi-Mode- Interferometer Laser Diode for Fiber Amplifier Applications, Optical Fiber Communications Conference, 2002, Anaheim, CA.		
	20	SOLDANO et al., Optical Multi-Mode Interference Devices Based on Self-Imaging: Principles and Applications, Journal of Lightwave Technology, April 1995, 615-627, 13-4.		
~	- 21	Si et al., Area Selectivity of InGaAsP-InP Multiquantum-Well Intermixing by Impurity-Free Vacancy Diffusion, IEEE Journal of Selected Topics in Quantum Electronics, July/August 1998, 619-623, 4-4.		

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